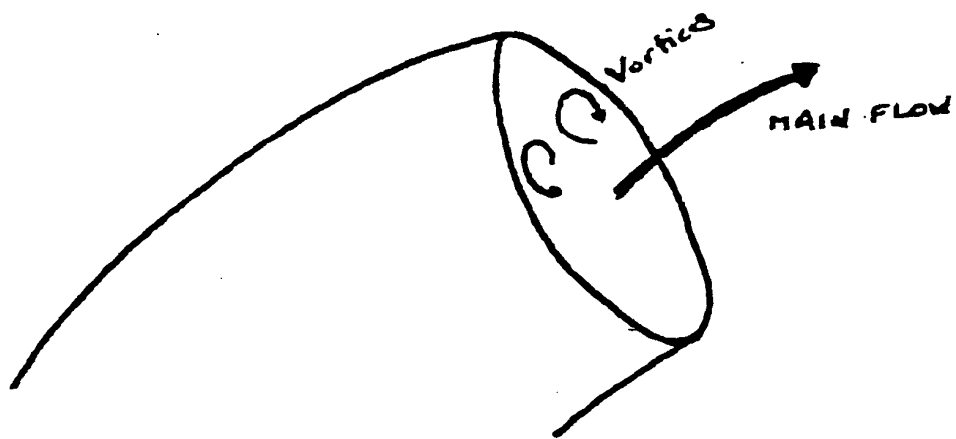


Fig. 1



Prior Art

09807592-063904

Fig. 2

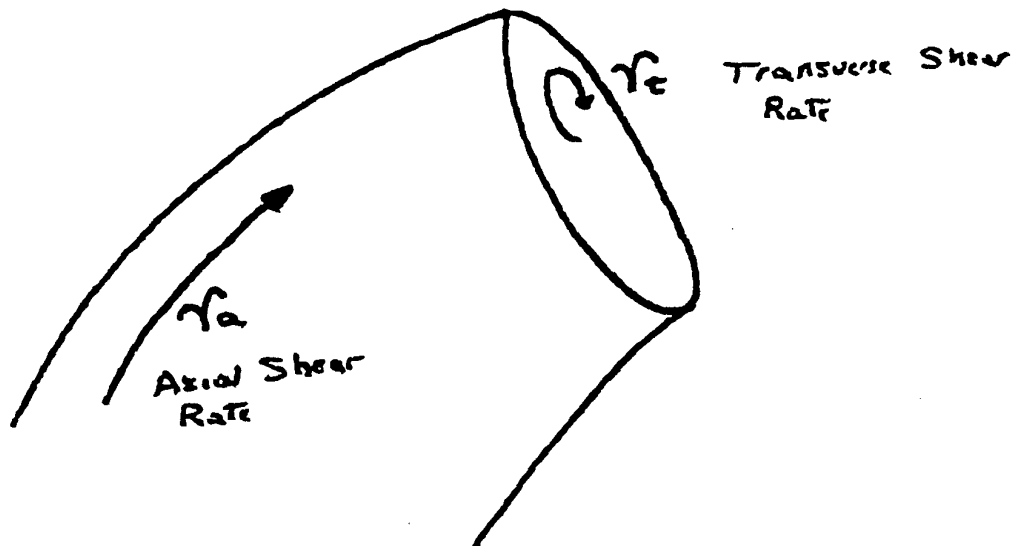
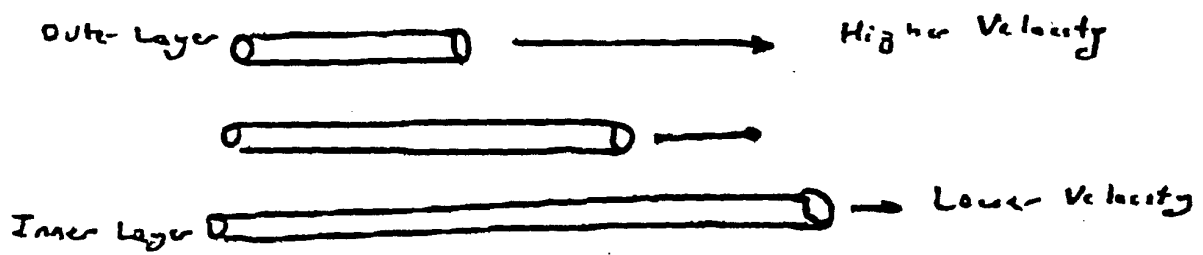


Fig. 3



09/807592-0000

Fig. 4

Plot Capacity vs N

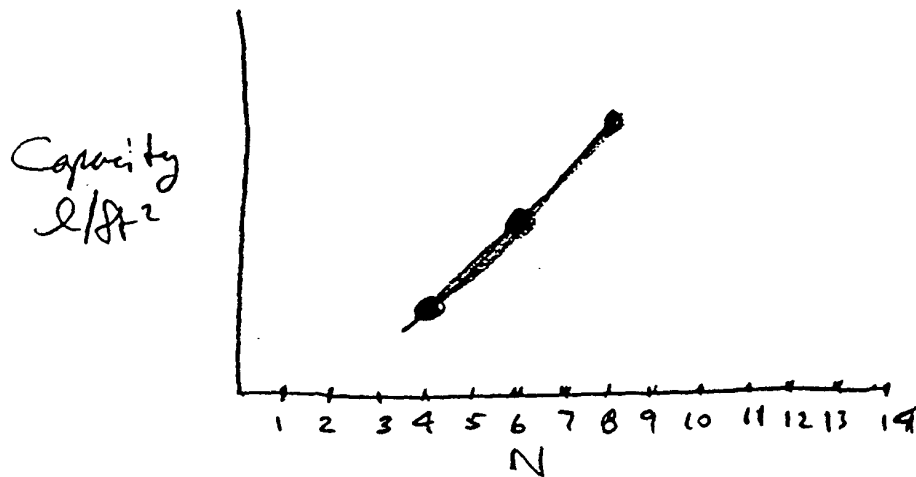


Fig. 5

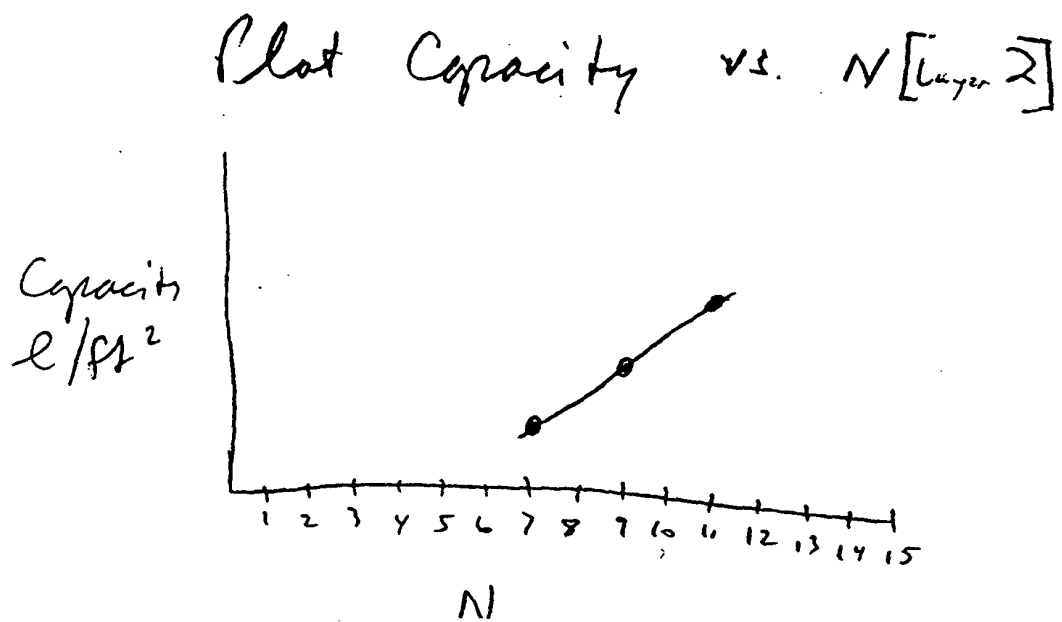


Fig. 6

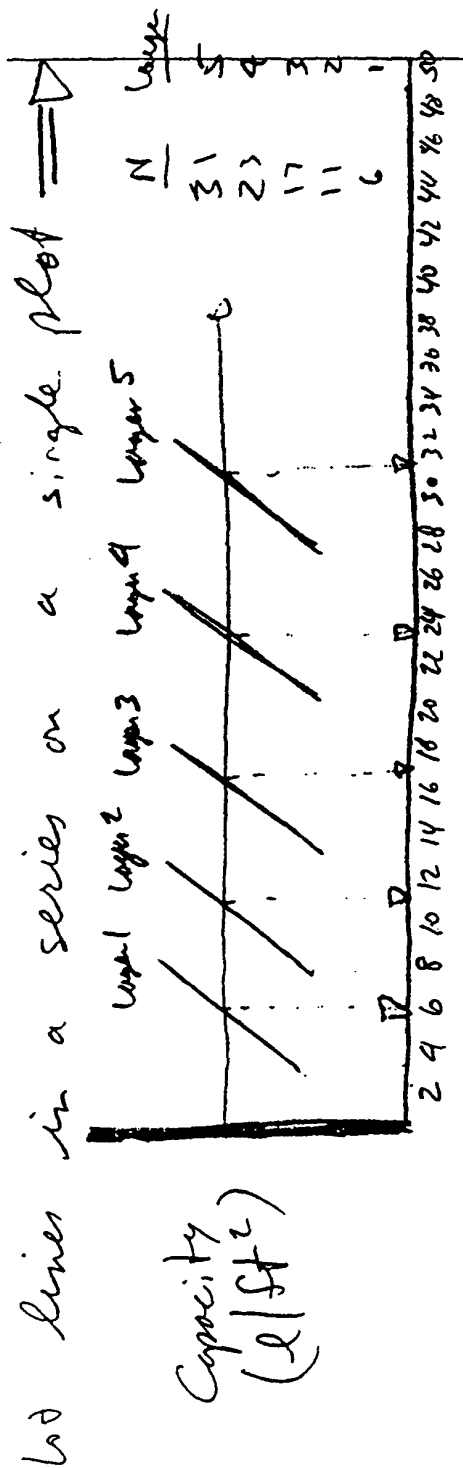
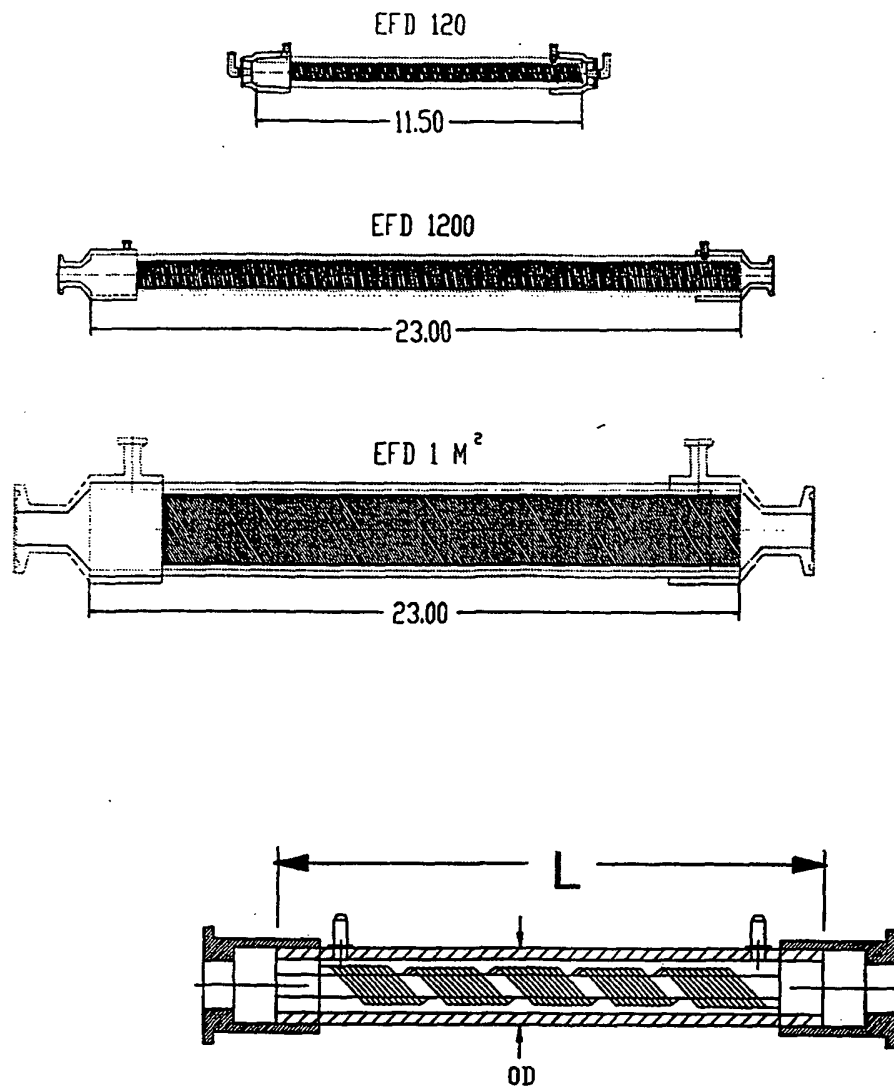


Fig. 7



Type	Area	# of fiber layers	Shell Length "L" (in.)	Shell O.D. (in.)	# of Fibers/ Device	Fiber Length (in.)	Equiv. Dean # ( @ 2psi)
Lab Scale	120 sq.cm	1	11.5	.75	4	38	203
Pilot Scale	1200 sq.cm	3	23	1.1	40	35	210
Process Scale	1 sq.m.	11	23	2.4	300	37	110
	2 sq.m.	16	23	2.9	590	37	104

\*assumes fiber 1.3mm ID x 2mm OD

Fig. 8

# EXPERIMENTS DEMONSTRATING SCALING BETWEEN LABORATORY AND MANUFACTURING SCALE MODULES

Scale Up Experiments-Constant Flux Experiment using 0.1  $\mu\text{m}$  Fiber, 130  $\text{cm}^2$  and 5  $\text{Ft}^2$  EFD at  $\Delta P$  (feed channel) 4 psi and Flux 20 lmh using Synthetic Solution (2% BSA, 0.2% RNA and 0.5% Dextran in 0.1M Sodium Acetate Buffer of pH:5)

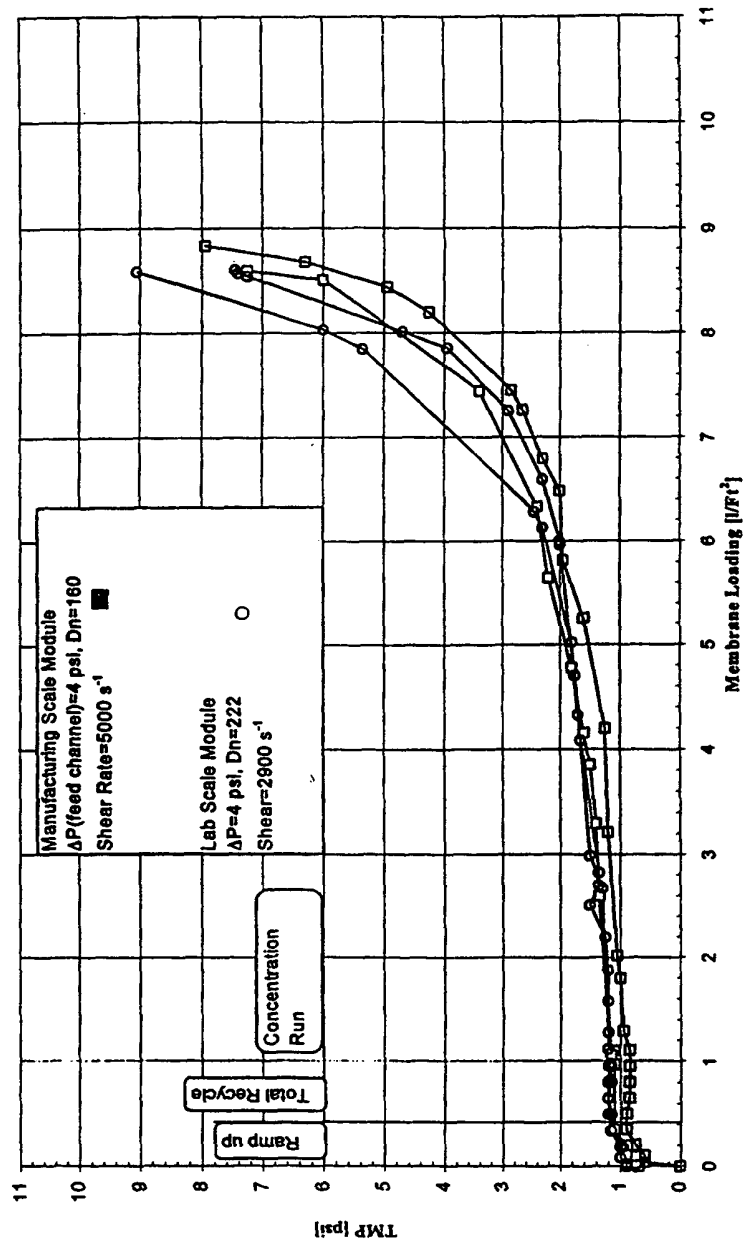




FIG. 233 26520860

# EFD MODULE DESIGNS

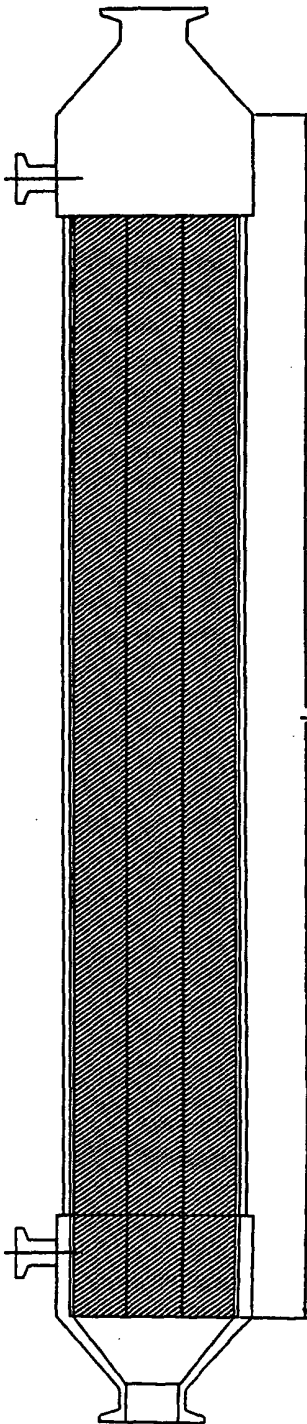
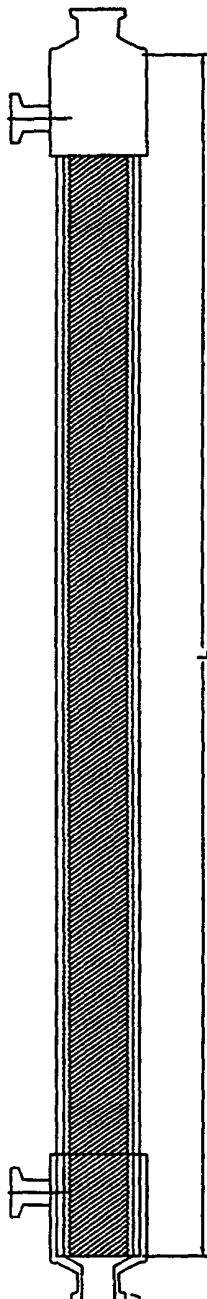
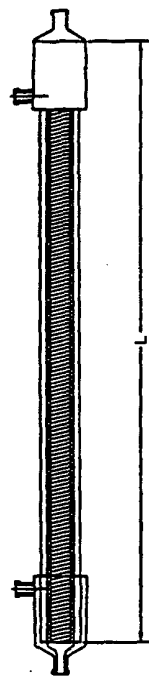
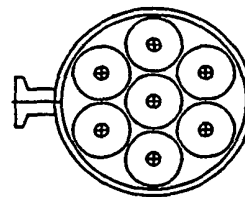
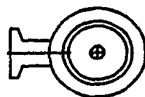
WO 00/35567

09/807592

PCT/US99/30141

9 / 11

SECTION VIEWS



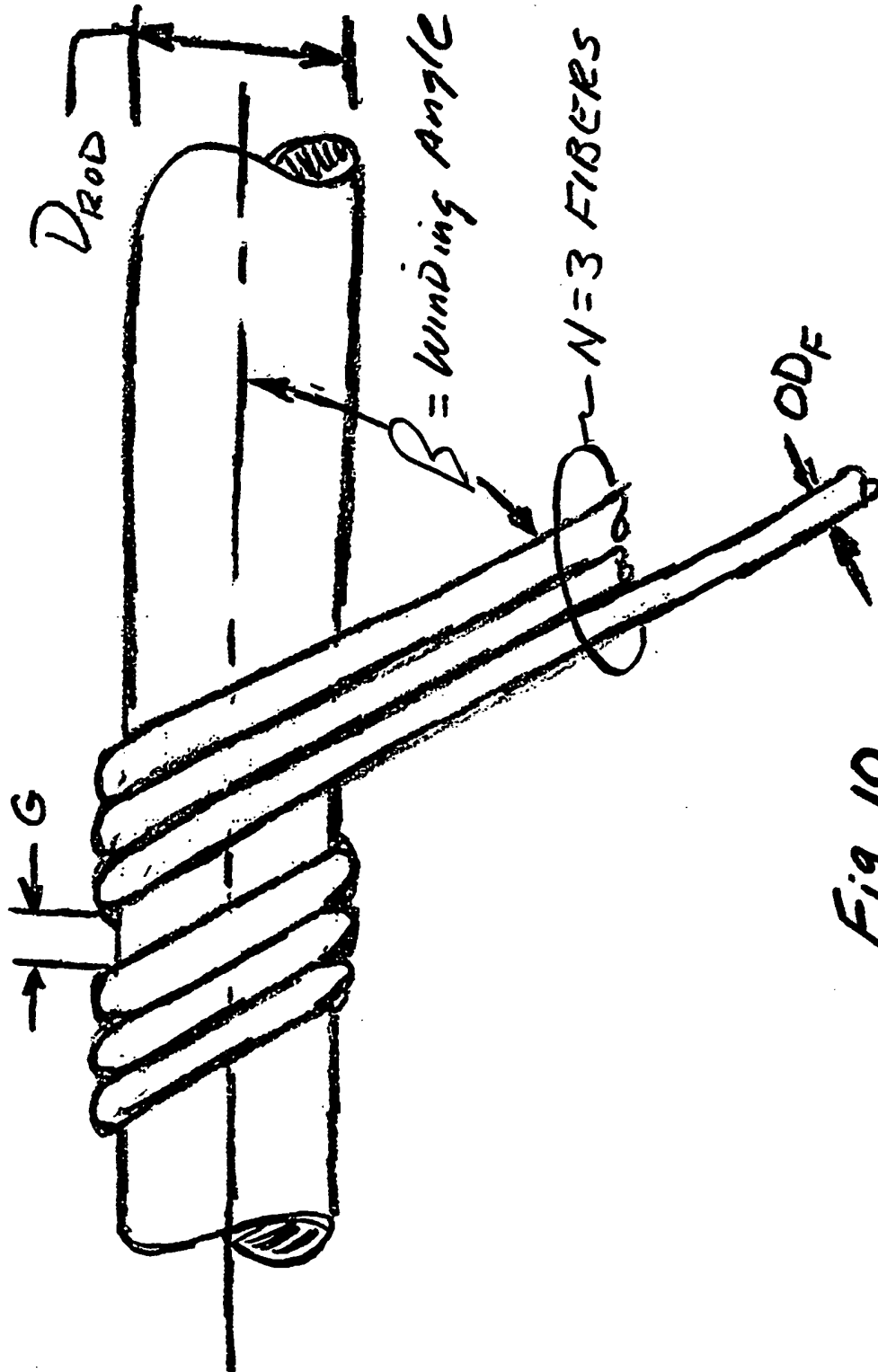


Fig. 10

11 / 11

